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## Washington University Record, April 1, 2005

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# Record

April 1, 2005

Volume 29 No. 27



Washington University in St. Louis

## Elizabeth Gray Danforth dies

University's former first lady was 75

**E**lizabeth Gray Danforth, wife of Chancellor Emeritus William H. Danforth and first lady of Washington University for nearly a quarter century, passed away on Wednesday, March 30, 2005, of cancer. She was 75.

Known as "Ibby" to her friends and to the campus community, she became a tireless ambassador for the University when her husband was named vice chancellor for medical affairs in 1965 and then chancellor in 1971.

"Ibby Danforth was one of the great citizens of Washington University and of St. Louis," Chancellor Mark S. Wrighton said. "There are just not enough words to describe her warmth, her compassion, and the lasting impression that she left on every person she met."

"When you were with Ibby Danforth, you felt special and you knew you were with a very special person. Washington University is a much better place because of her work here for nearly half a century. She will be missed by many and remembered by all who had the honor to know her."

A native St. Louisan, Ibby Danforth graduated from John Burroughs School and then attended Wellesley College in Massachusetts, where she earned an undergraduate degree in June 1950. That September she married William Danforth, who was starting his last year at Harvard University Medical School.

Upon their return to St. Louis in 1951, she embarked upon a lifelong commitment to the com-

munity and to Washington University, supporting her husband in his career of intern, Navy physician, medical resident, faculty member, vice chancellor for medical affairs, chancellor and chair of the University's Board of Trustees.

To stay in touch with the students she loved, Danforth took classes and attended numerous lectures, performances and student-sponsored events throughout the 24 years that her husband was chancellor — 1971-1995.

To stay in touch with alumni and the St. Louis and corporate communities, she hosted and participated in hundreds of receptions and events throughout the world.

In recognition of her volunteer efforts, Danforth received numerous awards, including the University's William Greenleaf Eliot Society Search Award in 1987.

In 1995, The Women's Society of Washington University named in her honor a scholarship fund to assist community college students seeking to transfer to WUSTL. The fund had originally been established in 1976 and was renamed in her honor as an expression of gratitude for all she did as the University's "first lady."

In 1996, Ibby's Garden — the Elizabeth Gray Danforth Butterfly Garden, at the southeast corner of Forsyth Boulevard and Wallace Drive — was dedicated in her honor, a gift to the University from The Woman's Club of Washington University.

"Her enjoyment of the garden is so apparent in photos of

See **Danforth**, Page 6



Danforth



Michael R. Brent, Ph.D., and Tamara L. Doering, M.D., Ph.D., examine data from the *C. neoformans* gene expression microarray. The husband-wife researchers had the rare chance to collaborate when they put their expertise to work on this genome-sequencing project.

## Sequenced genomes provide key clues into 'dirty work' of fungus

By TONY FITZPATRICK

**T**he combination of devastating diseases such as HIV, and medical breakthroughs such as organ transplants and drugs like chemotherapy and steroid treatments, has created a sea of immunocompromised people worldwide.

This, in turn, has provided a job opening for an obscure fungus discovered in the 19th century that can lead to brain infection and death in those with compromised immune systems.

Now, a team of collaborators, including two WUSTL researchers, has sequenced the genomes of two strains of the fungus *Cryptococcus neoformans*, one which is virulent, the other harmless. This work provides researchers with clues on how the fungus does its "dirty work" and a host of genes to study for a better understanding of fungal pathogens in general.

An estimated 15 percent of people with HIV will suffer at least one life-threatening infection of *C. neoformans*. In Africa, that figure could be as much as 40 percent.

Michael R. Brent, Ph.D., professor of computer science and engineering in the School of Engineering & Applied Science, and Tamara L. Doering, M.D., Ph.D., associate professor of molecular microbiology

in the School of Medicine, have provided key inputs into the interpretation of the genomes.

Brent and graduate student Aaron Tenney used Brent's gene prediction software TWINSCAN to discover some 1,200 genes not found by traditional analysis methods. These predicted genes were included in a gene expression microarray that Doering and Brent designed.

This new tool allows researchers to observe the expression of all *Cryptococcus* genes and how their expression levels change under different circumstances.

Doering, who has devoted much of her research over the past eight years to *C. neoformans*, has shed light on the unique polysaccharide capsule that envelops the fungus and helps it evade the body's defenses. Because the genome sequencing project identified about 30 new genes that likely are involved in building the capsule, scientists now could find ways to interfere with this process and stop infection.

Understanding the process by which the capsule is made might lead to developing antifungal drugs, because the capsule is a structure unique to the virulent *C. neoformans* strain.

The WUSTL researchers are part of a long-term collaborative group on this project that includes sci-

See **Genomes**, Page 6

## Symposium to commemorate civil rights struggle

By BARBARA REA

**T**he University will present a symposium called "Documenting Change" April 5-6 that will commemorate the Civil Rights Movement by focusing on the contributions of the historic documentary *Eyes on the Prize*, a work by WUSTL graduate Henry Hampton.

Events will include screenings of *Eyes on the Prize* episodes and a panel discussion about the significance of the series; a keynote address by civil rights activist Robert Moses (see story, Page 4); and an exhibition in Olin Library.

Moses once remarked that Mississippi in 1964 was like "a little apartheid" right here in America. Viewing the vote and the empowerment of people as necessary to the democratic process, thousands of young people of all ethnicities traveled to Mississippi that summer to change America.

The next year, civil rights activists marched from Selma to Montgomery to demonstrate for voting rights in Alabama. Turned back at the Edmund Pettis Bridge by the brutality of Alabama state troopers, the marchers would return to the site of "Bloody Sunday" as an even greater contingent of people from across America came to repeat the demonstration.

Crossing the bridge, Hampton thought, "This would make a great movie."

Two decades later, Hampton made that "great movie" with the seminal film series *Eyes on the Prize: America's Civil Rights Years* and its sequel, *Eyes on the Prize:*

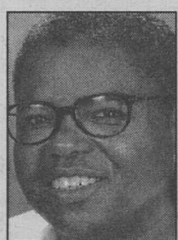
*America at the Racial Crossroads*, a critically acclaimed and widely popular 14-part series chronicling the American Civil Rights Movement.

The series garnered more than 23 awards, including two Emmys, an Oscar nomination, a Peabody and the Edward R. Murrow Brotherhood Award for Best National Documentary.

In addition to its positive reception from television critics and professionals, *Eyes on the Prize* was lauded by historians and educators. Using archival footage and contemporary interviews with participants in the struggle for and against civil rights, the series presented the movement as multifaceted.

"The series is an example of how media can render American history as a means to transform a nation," said Leslie Brown, Ph.D.,

See **Symposium**, Page 6



Brown

## File-sharing programs to be explored at April 7 event

By NEIL SCHOENHERR

**W**USTL students may soon be able to download music legally through a file-sharing program contracted by the University.

A vendor fair called "Digital Expo" will be held from 4:30-9:30 p.m. April 7 in the Mudd House multipurpose room. It will aim to educate students about legal and illegal file sharing and provide an opportunity to learn about shared music products and services.

"This is a unique opportunity for students to directly impact the technological services available on our campus," said Danielle Matilsky, speaker

of the Congress of the South 40. "Student input is essential to this endeavor and will provide the administration with the opinions necessary to make a purchase that best fits the needs of Washington University students, especially those who plan on living in campus housing in the years to come."

Jan Weller, assistant vice chancellor and director of network and library technology, said Student Union has considered several file-sharing options.

"Last fall, the Technology Resource Committee, a Student Union subcommittee which I help to advise, decided it was time to research legal music

See **Vendor fair**, Page 6





## Arts & Sciences' Agarwal named Truman Scholar

By NEIL SCHOENHERR

Arts & Sciences junior Pooja Agarwal has been awarded a 2005 Harry S. Truman Foundation Scholarship.

The Truman Scholarship program is open to juniors interested in public-service careers. Truman Scholars are selected based on academic performance, leadership and dedication to public service.

Each scholarship provides \$30,000 — \$3,000 for the student's senior year and \$27,000 for two or three years of graduate study.

Scholars also receive priority admission and supplemental financial aid at some premier graduate institutions, along with leadership training, career and graduate-school counseling and special internship opportunities within the federal government.



Agarwal

Agarwal is majoring in elementary education and in the Philosophy-Neuroscience-Psychology (PNP) Program, both in Arts & Sciences. She has a growing interest in learning and memory, as well as the implications and applications of such research on educational instruction and policy.

"I am excited and honored to have won the Truman Scholarship," Agarwal said, "not only for the scholarship money and prestige, but also as an indication that the foundation believes that I will be an agent of change and that my advocacy efforts for a research-based education system are worthwhile."

Dirk Killen, Ph.D., assistant dean in the College of Arts & Sciences and Agarwal's four-year adviser, said he was immediately struck by her maturity.

"Before Pooja had ever enrolled in a Washington Univer-

sity course, she already had a plan in her mind about how to integrate cognition studies in psychology with improvements in educational policy," Killen said. "I was astonished to meet a 17-year-old who had such a clear-out sense of mission or vocation, particularly one outside the pre-professional tracks of law and medicine."

"There is no question in my mind that she will be one of the outstanding 'agents of change' that the Truman Scholarship Program seeks to honor and encourage."

She has presented at national conferences, has published an article in *Learning & Leading With Technology*, and has developed and taught more than 200 hours of hands-on math and science for K-12 students at the Illinois Mathematics and Science Academy Kids Institute.

During summer 2003, she interned for John Bailey, director of the U.S. Department of Education's Office of Educational Technology.

With a focus on cognitive psychology in the PNP program, Agarwal is interested in how learning and memory are related. She addresses questions such as "What is learning? How do we learn? Are learning and memory different?"

She is a research assistant in the University's Cognitive Psychology Lab. After graduation, she plans to pursue a doctorate in cognitive psychology.

"The Truman Scholarship will help me network with other education policy advocates through the 2006 Truman Scholars Washington Summer Institute," Agarwal said. "I will get to build friendships with other scholars with similar interests."

"The scholarship application process has helped me affirm and hone my values and ideals, and the scholarship provides enhanced access to graduate school and assistance with other scholarship and fellowship programs."

## Catholic Student Center to benefit from April 9 'Evening in Paris' gala

By SUSAN KILLENBERG MCGINN

"An Evening in Paris" — well, actually in the Khorassan Ballroom of the Chase Park Plaza — is the theme of the 2005 Newman Gala, a fund-raising auction and dinner dance April 9 benefiting the Catholic Student Center at Washington University.

The gala will begin with cocktails and a silent auction at 5:30 p.m. (doors open at 5 p.m.). The event will also include an oral auction and, following dinner, dancing to Arvell and Company, a seven-piece band performing Motown and other classics.

The fund-raiser is considered a vital source of support for the center, whose mission is to form students intellectually, morally, socially and spiritually through education, service and a worshiping community.

Among the more than 300 items being auctioned are a seven-night stay at a luxurious seven-bedroom home in Beaver Creek, Colo.; a luxury suite for 12 to a St. Louis Cardinals game in April or May; a cottage on Lake Michigan in historic, charming Douglas, Mich., for four days and three nights; one week in a condominium at the private Sawgrass Country Club in Ponte Vedra Beach, Fla.; two nights at the posh Montecito Inn in Santa Barbara, Calif.; and a French language class at Alliance Francaise

de St. Louis.

The Rev. Gary G. Braun is director of the Catholic Student Center, which is also known as the Newman Center. The center provides religious programs, leadership training, counseling services and social activities for WUSTL students of all denominations. The center, at 6352 Forsyth Blvd., also offers instruction in Catholic theology and philosophy.

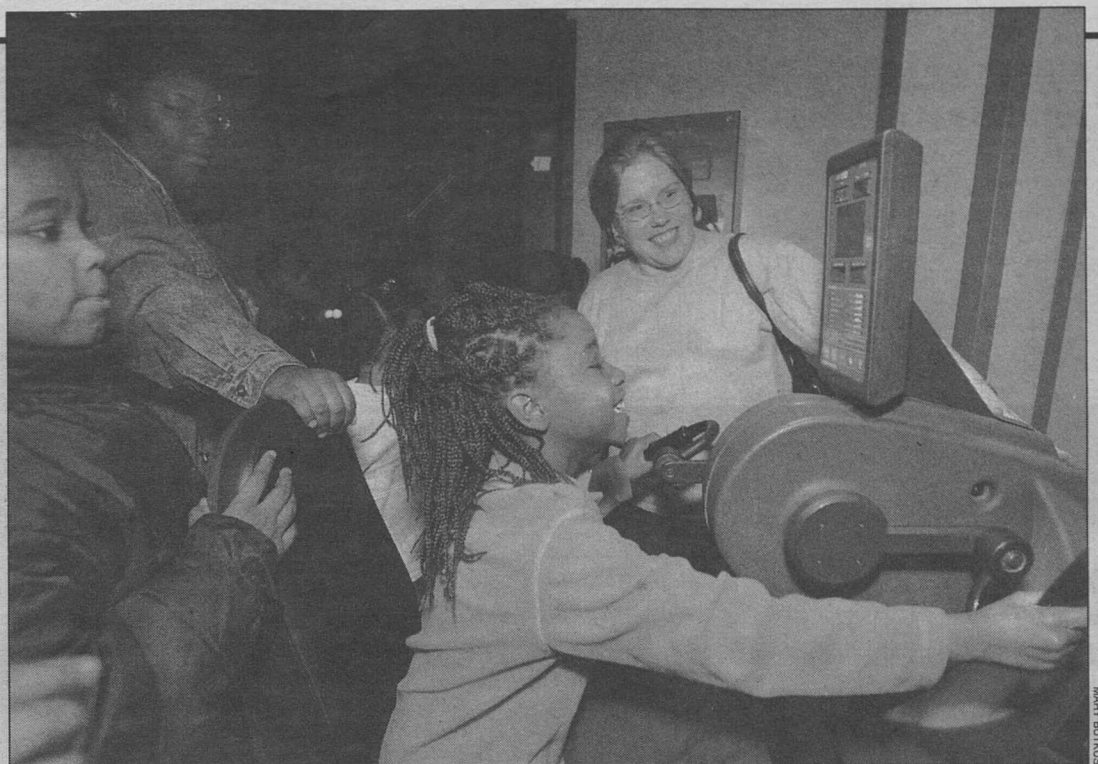
Monsignor Gerard N. Glynn, who opened the center in 1950 and served as its director for more than 40 years, is director emeritus. Lee Quackenbush is chair of the gala committee.

The center includes a chapel, library, classroom, recreation rooms, study space and offices housing 15 staff members. Braun also is director of the Catholic Campus Ministries for the Archdiocese of St. Louis.

Students associated with the center participate in many social-service and learning activities, including discussions on current social justice issues, attending lecture series and volunteering through local, national and international organizations.

For more information about the Catholic Student Center, go online to [washucsc.org](http://washucsc.org).

Individual gala tickets are \$95. For sponsorship ticket information or for reservations, call Kelli McDonald, development associate, at 935-9191 ex. 221.



**Making science fun** Jane Miller (right) of the Office of Community and Governmental Relations watches as children and chaperones from Pershing Accelerated Elementary School in University City visit the St. Louis Science Center Planetarium as part of the University's third annual University City Schools Literacy Project. The initiative combines an all-school reading activity with hands-on and interactive activities and involves a partnership with WUSTL, the University City school district, the Parkview Gardens Association (a University City neighborhood association), and — new this year — First Presbyterian Church of St. Louis. Other participating schools were Delmar-Harvard and Nathaniel Hawthorne. Other activities this year will include classroom visits by WUSTL science department faculty members.

## Red carpet rolled out for April Welcome visitors

By ANDY CLENDENNEN

Blooming flowers and green grass can only mean one thing — spring is in the air.

And while spring can mean many things to many people, to about 1,000 high-school students, it means April Welcome at the University.

The annual month-long event will bring close to that many prospective students from the Class of 2009 to the Hilltop Campus for a sampling of Washington University life.

The admitted students, who received an open invitation to visit campus any time in late March or April, were chosen from almost 22,000 undergraduate applications. Last year, these student guests, plus younger high-school student visitors who were just beginning their college searches, numbered more than 2,000 in March and April.

In its 13th year, the Office of Undergraduate Admissions' April Welcome event gives students an opportunity to experience the University and the St. Louis area.

"Many students have said that April Welcome made the difference in their decision to attend Washington University, so having our visitors experience campus life is very important," said Nanette H. Tarbouni, director of admissions. "The involvement and enthusiasm of our current students and the entire University community is quite impressive — and crucial to making the month successful."

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NANETTE H. TARBOUNI

About half the students who participate in April Welcome end up enrolling here, Tarbouni said.

The high-school seniors can take part in activities both on and off campus during their visit. They can room with a current student in a residence hall, sit in on classes, talk with faculty, attend meetings and social activities sponsored by numerous student organizations and sample the area's entertainment and cultural attractions.

The schools of Art, Architecture, Engineering & Applied Science and the Olin School of Business will offer special tours of their facilities.

The Multicultural Celebration Weekend April 14-17 will draw many prospective students from all over the country. This annual event is co-sponsored by the Office of Undergraduate Admissions and by many of the University's multicultural student organizations, which work together to plan the activities.

"In fact, the opportunity to interact with our current students is one of the major factors that influences a high-school student to attend Washington University," Tarbouni said. "All of our students, including the members of our great Student Admissions Committee, do a wonderful job representing our University."

Throughout April, the undergraduate admissions office will extend its hours for prospective students and their parents. In addition to its regular 8:30 a.m.-5:30 p.m. weekday hours, the office will be open from 9 a.m.-2 p.m. on Saturdays and from 11 a.m.-2 p.m. on Sundays.

The student financial services office will have drop-in hours from 1-4 p.m. Mondays and Fridays and from 1-3 p.m. Tuesdays, Wednesdays and Thursdays.

Additional campus tours will be added for April Welcome. Tours will leave from the undergraduate admissions office in South Brookings Hall at 10 and 11 a.m. and 2:30 p.m. Mondays and Fridays; at 11 a.m. and 2:30 p.m. Tuesdays, Wednesdays and Thursdays; at 10:30 a.m. and noon on Saturdays; and at noon on Sundays.

## Recital to highlight neglected Russian composer Medtner

By LIAM OTTEN

Russian composer Nicolai Medtner (1880-1951) was a formidable musician, a piano professor at the Moscow Conservatoire who, after the Revolution of 1917, fled to Berlin, Paris and finally London.

Yet unlike his friend and fellow exile Rachmaninoff, Medtner never found a popular audience in the West. His work remains little-known, despite its high craftsmanship and expressive beauty.

At 3 p.m. April 3 in the Mildred Lane Kemper Art Museum, pianist and longtime Medtner champion Hugh Macdonald, the Avis H. Blewett Professor of Music in Arts & Sciences, will present a rare recital of Medtner's music. The program will include solo piano works as well as songs based on texts by Goethe; works for violin and piano;

and works for cello and piano.

Joining Macdonald will be pianist Seth Carlin, professor of music, and cellist Elizabeth Macdonald, director of strings.

Also performing will be Lenora Marya Anop, assistant professor of violin at Southern Illinois University Edwardsville; and mezzo soprano Carrie Stevens, assistant professor of voice at James Madison University.

"This recital has been planned to present a perspective of Medtner's art in different genres," said Macdonald, who will serve as

accompanist throughout the program.

Works will include *Sonata No. 1 in B Minor for Violin*, with Anop; two sets of selected songs, sung by Stevens; and *Nocturne, Op. 16, No. 3* and *Danza, Op. 43, No. 2*, with Elizabeth Macdonald.

In addition, Carlin will perform two solo pieces Medtner wrote under the title *Skazki* (usually translated as "tales," though most carry no literary allusion): *The Tale in D Minor, Op. 34 No. 4* and *The Tale in B Flat Minor, Op. 20, No. 1*. The latter, composed in 1909, is one of Medtner's best-known pieces, unusually close to the style of Rachmaninoff, who played it in 1918-19 during his first U.S. tour.

The recital is free and open to the public. For more information, call 863-6621.



Macdonald



## School of Medicine Update

# University tagged great place to work for postdocs

By KIM LEYDIG

From city papers to national magazines, the University has long landed stellar spots on "Best Places to Work" lists. And now WUSTL makes *The Scientist* magazine's third annual "Best Places for Postdocs to Work: 2005" survey — scoring the No. 2 spot for U.S. academic institutions and earning 10th place overall.

In its quest to find what institution does the best job of nurturing "the hardworking heroes of science," the magazine received more than 3,500 responses from scientists in the United States, Canada and Western Europe.

Respondents considered factors ranging from training and experience for future careers, to access to books, journals and supplies, to the support and communication skills of their principal investigator.

"There is a concerted effort across the United States to improve the postdoctoral experience, and we are proud to be in the leading group of universities that recognize and support our postdoctoral community," said Mary Bradley, director of the Office of Post Graduate Affairs.

"With the implementation of the Postdoctoral Education Policy last July, and the seminars and resources we offer, we recognize the importance of postdocs to the University and our need to support them in their training."

In an effort to further support postdocs, the majority of whom train at the School of Medicine, the Inaugural Postdoc Scientific Symposium was held Feb. 23 to recognize the contributions postdocs make to the University as well as to provide a forum for them to illustrate and share the scope of their research.

At the symposium — which was sponsored by the Office of Post Graduate Affairs, the WUSTL Postdoc Society, the Division of Biology & Biomedical Sciences and the Office of the Vice Chancellor for Research — Linda B. Cottler, Ph.D., professor of psychiatry, received the Outstanding Faculty Mentor Award.

"Mentoring our next generation of scientists is incredibly important, so I'm extremely honored to receive this award from our postdocs," Cottler said. "We couldn't do our research without them. Postdocs are exciting to have in the lab because they are so enthusiastic — they teach us where to go next."



Neurology postdoctoral researcher Yan Hu, Ph.D. (right), discusses her poster presentation on the identification of candidate biomarkers for Alzheimer's disease with David L. Brody, M.D., Ph.D., instructor of neurology, and Allison C. Gates, Ph.D., postdoctoral research scholar in internal medicine, at the Inaugural Postdoc Scientific Symposium Feb. 23.

## Abumrad named Atkins professor

By JIM DRYDEN

Nada A. Abumrad, Ph.D., was recently installed as the first Dr. Robert C. Atkins Professor of Medicine and Obesity Research.

The professorship was made possible by a gift from the Dr. Robert C. Atkins Foundation. The Atkins chair is the first professorship in the United States specifically devoted to supporting the study of obesity.

Chancellor Mark S. Wrighton and Larry J. Shapiro, M.D., executive vice chancellor for medical affairs and dean of the School of Medicine, recently announced the professorship.

"Endowments like this one have a lasting impact on the University's ability to attract and retain outstanding faculty," Wrighton said. "This professorship helps address a growing problem that is robbing millions of Americans of good health."

Shapiro added the professorship will strengthen the University's position as a major center for nutrition and obesity research and treatment.

Abumrad studies fatty acid transport and its role in diabetes, atherosclerosis and obesity. She is exploring the role of a cell membrane protein she was the first to identify as a facilitator of fatty acid uptake and in fat utilization, energy balance and predisposition to metabolic diseases.

Abumrad did her undergraduate work at the Faculty of Sciences and the American University of Beirut in Lebanon, and she earned a doctorate in pharmacology from State University of New York (SUNY) Medical Center.

After a year as a research asso-



Veronica Atkins (right) congratulates Nada A. Abumrad, Ph.D., on being installed as the first Dr. Robert C. Atkins Professor of Medicine and Obesity Research. The Atkins chair is the first in the United States specifically devoted to the study of obesity.

ciate at Syracuse University, she went to Vanderbilt University, where she was an associate professor of molecular physiology and biophysics. In 1992, she moved to SUNY at Stony Brook, before coming to Washington University this year to assume the Atkins chair.

"Dr. Abumrad's research will help us understand the fundamental cellular mechanisms that can explain why obesity causes metabolic diseases such as diabetes," said Samuel Klein, M.D., the William H. Danforth Professor of Medicine and Nutritional Science, chief of the Division of Geriatrics and Nutritional Science and director of the Center for Human Nutrition.

Veronica Atkins, wife of the late

Robert C. Atkins, M.D., and chair of the board of directors of the Atkins foundation, explained that this professorship will advance the foundation's goals by enabling University researchers to test nutritional hypotheses in rigorous scientific studies that will identify better ways to fight obesity.

"The foundation was formed to sustain my husband's lifelong efforts to combat the obesity epidemic in America," she said. "We believe the Atkins professorship will play an important role in furthering his objectives."

Atkins was a cardiologist with an innovative perspective on nutrition and health. His 1972 book, *Dr. Atkins' Diet Revolution*, gave diet advice contrary to the recommendations of most nutritional experts at the time.

The Atkins diet has become increasingly popular since the 1992 publication of *Dr. Atkins' New Diet Revolution*.

Atkins died in April 2003 after sustaining injuries from a fall.

Veronica Atkins is a gourmet cook and co-author of *Dr. Atkins' Quick and Easy New Diet Cookbook*. She is involved in extending her husband's legacy through the work of the Atkins foundation.

The foundation was established in 1999 to ensure that Robert Atkins' focus on the role of nutrition in health would continue.

The foundation has assets of approximately \$40 million, and it collaborates with professionals and organizations concerned about the devastating impact of the obesity epidemic in America.

## Sequencing of X chromosome helps treat genetic disorders

By MICHAEL C. PURDY

The mysteries of both human sex chromosomes have now been laid bare with the publication of the sequence of the human X chromosome in the March 17 issue of *Nature*.

Scientists at the Wellcome Trust Sanger Institute in England led the effort to sequence the X, with significant contributions from WUSTL's Genome Sequencing Center (GSC).

Women have two X chromosomes; men have an X and a Y chromosome.

The GSC collaborated with the Whitehead Institute at Massachusetts Institute of Technology to publish the sequence of the smaller Y chromosome in June 2003.

The Y chromosome features unusual sequences of coding designed to preserve the function of its genes.

The X chromosome, by contrast, is sized much closer to the other human chromosomes not involved in sex determination, which are collectively known as autosomes.

But the X chromosome also is interesting to many scientists because of its role in gender and because it contains a high number of genes linked to inherited genetic disorders.

"Some of these disease genes, like the gene for hemophilia, are recessive mutations," said Bob Fulton, a GSC research associate. "That means if you have one good copy of the gene and one bad copy, you're a carrier for the disease."

"That also means men, who have only one copy of the X chromosome, are much more likely to get the disorders than women, who have two copies of the X chromosome."

When a gene mutates on autosomes, a normal version of the gene found on the second copy of the autosome is often able to compensate. In males, though, there's only one copy of the X chromosome, so no normal copies of the gene can compensate.

This barring of mutation's

effects first led scientists to associate genes with chromosomes in 1910, when a scientist found that a mutation that gives fruit flies white eyes shows up disproportionately in male fruit flies and is linked to inheritance of the X chromosome.

Females can suffer from inherited disorders or changes linked to genes on the X chromosome, but they often have to get two damaged or altered copies of the gene.

Scientists cloned the first human disease genes for muscular dystrophy and an immune system disorder, called chronic granulomatous disease, from the X chromosome in the early 1980s.

Scientists have now associated more than 300 diseases with the X chromosome, proportionally the highest of any chromosome so far.

Other conditions linked to the X chromosome include color blindness and cleft palate.

The X chromosome genome sequence has already allowed researchers to isolate more than 40 genes involved in medical conditions and disorders, which improve their ability to diagnose the disorders and potentially open up new avenues for development of treatments.

GSC researchers contributed base-pair sequencing data included in the published X chromosome sequence and also contributed heavily to a tool known as the "fingerprint map."

Chromosomes are far too large for automated gene sequencing machines, therefore researchers chop up multiple copies of the chromosome into pieces prior to sequencing.

The fingerprint map is a way to determine where those pieces came from on the chromosome by comparing many different pieces of varying lengths.

Other sex chromosomes being sequenced at the GSC include the mouse and chimp Y chromosomes and the chicken sex chromosomes, which are different from other sex chromosomes and known as the Z and W chromosomes.

## AIDS awareness tour brings message of hope

By KIM LEYDIG

AIDS still kills, but there's a growing sense of hope.

That's the message the Journey of Hope AIDS Awareness Tour aims to spread across the country as a group of people ages 10-25 embark on a three-week bus tour to promote HIV/AIDS awareness, education — and hope.

The University's Project ARK (AIDS/HIV Resources and Knowledge) will sponsor the Midwestern tour's St. Louis stop at 7 p.m. April 13 at Metropolitan Community Church,

5000 Washington Place.

Young people, infected and affected by HIV/AIDS, will share their stories and struggles in an effort to encourage prevention and understanding.

Project ARK is the only organization in the region that specifically coordinates multidisciplinary medical care; an array of support, prevention and educational services; and access to clinical trials for children, young adults, women and families infected, affected and at risk for HIV/AIDS.

For more information, call 361-3221 or (800) 724-HOPE.



# University Events

## Civil rights activist Moses to speak for Assembly Series

By BARBARA REA

Robert Moses, Ph.D., a leading figure in the American civil rights movement, will give an Assembly Series lecture at 11 a.m. April 6 in Graham Chapel.

The annual Martin Luther King Jr. memorial event, sponsored by the Association of Black Students, also serves as the keynote address for the "Documenting Change" symposium (see story, Page 1).

In 1960, Moses, then a young mathematics teacher in New York, traveled south to join the civil rights movement. He emerged as one of the most important organizers of that time, serving as field secretary for the Student Nonviolent Coordinating Committee (SNCC) and director of SNCC's Mississippi Project, organizing voter registration drives, sit-ins and "freedom schools."

He was a driving force behind Mississippi's "Freedom Summer Project" of 1964, an

initiative that was instrumental in galvanizing the country behind voter registration efforts in the South.

Furthermore, Moses organized the Mississippi Freedom Democratic Party, which challenged that state's political mainstream group at the 1964 Democratic Party Convention.

Forty years later, Moses is working for what he considers to be the current civil rights concern: math literacy. He conceived of and directs the Algebra Project, bringing crucial mathematical skills to middle school children in poor communities.

This is a national mathematics literacy effort, using experiential learning and a rigorous curricular process, helping students make the conceptual shift from arithmetic to

algebra — a prerequisite, he believes, in gaining full citizenship in today's technological society. The plan is explained in his 2001 book *Radical Equations: Civil Rights, From Mississippi to the Algebra Project*, which he co-authored with Charles E. Cobb Jr.

Moses teaches algebra and geometry at Lanier High School in Jackson, Miss.

According to Moses, 60 percent of new jobs will require skills possessed by only 20 percent of those entering the job market now. These jobs require the use of a computer and pay about 15 percent more than jobs that do not.

These numbers will undoubtedly increase in the future, he says, and the hidden culture of computers is mathematics.

So what do voter-registration drives and teaching algebra have in common? For one thing, it follows the principle Moses perfected 40 years ago of changing one person at a time.

"I think of the Algebra Project as work-

ing the demand side of the education conundrum that America faces," Moses says. "In the '60s, we were young and organizing an older generation to make appropriate demands on the country."

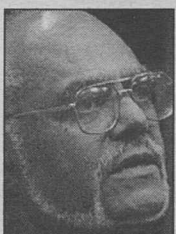
Now, he adds, "We are older and organizing a younger generation to do the same."

For his significant contributions to society, Moses was awarded a MacArthur "genius" grant in 1982 and a Heinz Award for the Human Condition in 2000.

Among his many other awards are the Nation/Puffin Prize for Creative Citizenship in 2001 and the Mary Chase Smith Award for American Democracy in 2002.

He earned a bachelor's degree from Hamilton College and a master's and doctorate in philosophy from Harvard University.

Assembly Series lectures are free and open to the public. For more information, go online to [assemblyseries.wustl.edu](http://assemblyseries.wustl.edu) or call 935-4620.



Moses

## Who Owns Music? • Into the Woods • America and Oil

"University Events" lists a portion of the activities taking place April 1-14 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus ([calendar.wustl.edu](http://calendar.wustl.edu)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

### Exhibits

**Inside Out Loud: Visualizing Women's Health in Contemporary Art.** Through April 24. Kemper Art Museum. 935-4523.

### Wednesday, April 6

**Documenting Change: Abolition Through Reconstruction.** Presented by University Libraries. (5:30 p.m. remarks; 6:30 p.m. reception.) Olin Library, Lvl. 1, Ginkgo Reading Room. 935-5495.

### Film

### Friday, April 1

**7:30 p.m. St. Louis Italian Film Festival Presentation.** *Il Cuore Altrove (Incantato)*. Co-sponsored by the Program in Film & Media Studies and the Istituto Italiano di Cultura di Chicago. Brown Hall, Rm. 100. 935-4056.

### Monday, April 4

**7 p.m. American Indian Awareness Week Presentation.** *The Business of Fancy-Dancing*. Sherman Alexie, dir. Sponsored by the Buder Center for American Indian Studies. Brown Hall Lounge. 935-4510.

### Tuesday, April 5

**7 p.m. University Libraries Presentation.** *Documenting Change: Eyes on the Prize*. Loudermann Hall, Rm. 458. 935-5495.

### Lectures

### Friday, April 1

**9 a.m. School of Law "Access to Justice" Public Interest Law Speakers Series.** "Ending Poverty as We Know It: Guaranteeing a Right to a Job at a Living Wage." William P. Quigley, dir., Loyola Law Clinic and Gillis Long Poverty Law Center, Loyola U., New Orleans. Anheuser-Busch Hall. 935-4958.

**Noon. Cell Biology & Physiology Seminar.** "Studies of Mice and Fruit Flies to Discover Mechanisms Controlling Pancreatic Islet Growth and Function." Seung K. Kim, asst. prof., Stanford U. McDonnell Medical Sciences Bldg., Rm. 426. 362-7437.

**12:30-4:30 p.m. St. Louis STD/HIV Prevention Training Center CME Course.**

**"STD Clinician."** (Continues 12:30-4:30 April 8.) Cost: \$125. U. of Mo.-St. Louis, South Computer Bldg., Rm. 200A. To register: 747-1522.

**4 p.m. Dept. of Music Lecture.** "Injury Prevention for the Performing Musician." Stephanie Baird, physical therapy graduate student. Music Classroom Bldg., Rm. 102. 935-4841.

**7 p.m. Performing Arts Department Talk.** "An Interview With James Lapine." James Lapine, dir., writer and librettist. Mallinckrodt Student Center, A.E. Hotchner Studio Theatre. 935-5858.

### Saturday, April 2

**7:30 a.m.-noon. AIDS Clinical Trials Unit CME Course.** "HIV Update From the 12th Conference on Retroviruses and Opportunistic Infections." Cost: \$60. Eric P. Newman Education Center. 454-8275.

**10 a.m. Physics of the Environment Saturday Series.** "The Latest on the Greenhouse Effect." Carl Bender, prof. of physics. Sponsored by the Dept. of Physics and University College. Crow Hall, Rm. 201. 935-6276.

### Monday, April 4

**Noon. Neurology Monday Noon Seminar Series.** George Wittenberg, asst. prof. of neurology, Wake Forest U. Maternity Bldg., Schwarz Aud. 747-3243.

**3 p.m. Dept. of Mechanical & Aerospace**

**Engineering Special Seminar.** "Transition Between Regular and Mach Reflections in Shock-shock Interaction." Mikhail S. Ivanov, head, Computational Aerodynamic Laboratory, Institute of Theoretical & Applied Mechanics, Russian Academy of Sciences, Novosibirsk, Russia. Lopata Hall, Rm. 101. 935-6012.

**4 p.m. Condensed Matter/Materials and Biological Physics Seminar.** "Nanoscale Order in Amorphous Materials for Fluctuation Electron Microscopy." Paul Voyles, prof. in Materials Science and Engineering dept., U. of Wis. (3:45 p.m. coffee). Compton Hall, Rm. 241. 935-6276.

**7 p.m. Annual Adam Cherick Lecture in Jewish Studies.** "Broadcasting Power, Transmitting Culture: Radio and the Making of Modern Israel." Derek Penslar, Samuel Zacks Professor of Jewish History, U. of Tor. Lab Sciences Bldg., Rm. 300.

### Tuesday, April 5

**Noon. Molecular Biology and Pharmacology Seminar.** "Stress Responses That Determine Lifespan in *C. elegans*." Gordon J. Lithgow, assoc. prof., Buck Institute for Age Research, Calif. Needleman Library. 362-0183.

**12:30 p.m. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Host Genes Affecting Retroviral Replication." Stephen P. Goff, Higgins Professor of Biochemistry, Columbia U. McDonnell Sciences Bldg., Erlanger Aud. 362-4826.

**3 p.m. Dept. of Mechanical & Aerospace Engineering Special Seminar.** "Direct Stimulation Monte Carlo (DSMC) Method: Recent Advances and Applications." Mikhail S. Ivanov, head, Computational Aerodynamic Laboratory, Institute of Theoretical & Applied Mechanics, Russian Academy of Sciences, Novosibirsk, Russia. Cupples II, Rm. 100. 935-6012.

**3 p.m. Russian Dept. Lecture.** "From Bucharest to Baghdad: Stories of an American Diplomat." David Tessler, U.K. desk officer, U.S. State Dept. Ridgley Hall, Rm. 122. 935-5177.

**7 p.m. Kemper Art Museum Lecture.** "Paradoxes of Visibility: Women's Health in a 'Post-reproductive Era.'" Paula Treichler, prof. of social medicine, cultural studies and feminist theory, U. of Ill. Kemper Art Museum. 935-4523.

### Wednesday, April 6

**11 a.m. Assembly Series.** Martin Luther King Jr. Memorial Lecture. Robert Moses, organizer of "Freedom Summer" voter registration drives. Co-hosted by University Libraries. Graham Chapel. 935-4620.

**Noon. Earth and Planetary Sciences Colloquium.** "Geometry Driven Interfacial Phenomena in Semiconductor-metal Hybrid Structures." S.A. Solin, Charles M. Hohenberg Prof. of Physics and dir. of the Center for Materials Innovation. Earth and Planetary Sciences Bldg., Rm. 203. 935-5610.

**12:15 p.m. Jewish Medical Ethics Class.** "Ruminations on Using Medical Data From Nazi Experiments." Rabbi Hershey Novack of Chabad. Olin Residence Hall, Lvl. 1 lounge. 721-2884.

**4-5 p.m. Biochemistry and Molecular Biophysics Seminar.** "Unfolded Is Not Unstructured." Trevor P. Creamer, assoc. prof., U. of Ky. Cori Aud. 362-0261.

**7:30 p.m. University Libraries Panel Discussion.** *Documenting Change: Eyes on the Prize*. Judy Richardson, Orlando Bagwell & Louie Massiah, filmmakers. Whitaker Hall Aud. 935-5495.

### Thursday, April 7

**Noon. African and Afro-American Studies Lecture.** "Historicizing the Unspeakable: Bad Death and Dangerous Sexuality in South Africa From the Colonial Era to Age of AIDS." Benedict Carton, assoc. prof., George Mason University. Eliot Hall, Rm. 200F. 935-5690.

**Noon. Center for Health Policy Ethnic & Racial Disparities in Health Care Brown Bag Seminar Series.** "Health Disparities in Diabetes." Edward F. Lawlor, dean and William E. Gordon Professor, George Warren Brown School of Social Work. Simon Hall, Rm. 241. 935-9108.

**4-5 p.m. Ophthalmology & Visual Sciences Seminar.** "In Vivo Retinal Uptake of Permeation Peptide Constructs in Rodents and Potential Uses." Edward M. Barnett, asst. prof. of ophthalmology and visual sciences. Maternity Bldg., Rm. 725. 362-1006.

**4:15 p.m. Earth and Planetary Sciences Colloquium.** "Vesicular Basalts From Asteroids: Where and How Did They Form and Why Are They so Rare?" Timothy J. McCoy, curator, Dept. of Mineral Sciences, National Museum of Natural History, Smithsonian Institution. Earth and Planetary Sciences Bldg., Rm. 203. 935-5610.

### Friday, April 8

**8 a.m. Neurology Grand Rounds.** Irwin Levy Lecture. "Progress in the World of Epilepsy: Where's the Excitement?" Daniel H. Lowenstein, prof. and vice-chairman of neurology, U. of Calif., San Francisco. Barnes-Jewish Hosp. Bldg., West Pavilion Aud. 362-7177.

**11 a.m. Physics Seminar.** "Chemical Reactivity of Iron Oxide Nanoparticles." R. Lee Penn, asst. prof. of environmental chemistry, U. of Minn. (10:45 a.m. coffee.) Lopata Hall, Rm. 101. 935-6276.

**Noon. Cell Biology & Physiology Seminar.** "Signaling Pathways From Cell Surface Proteoglycans to Rho Kinases and the Actin Cytoskeleton." John R. Couchman, prof. of biomedical sciences, Imperial College, London. McDonnell Medical Sciences Bldg., Rm. 426. 362-2254.

**2 p.m. American Indian Awareness Week Lecture.** "The Campaign for Democracy Around the World: Lessons from Indian Country." Carole Goldberg, prof. of law, U. of Calif., Los Angeles. Anheuser-Busch Hall, Bryan Cave Moot Courtroom. 935-4510.

### Saturday, April 9

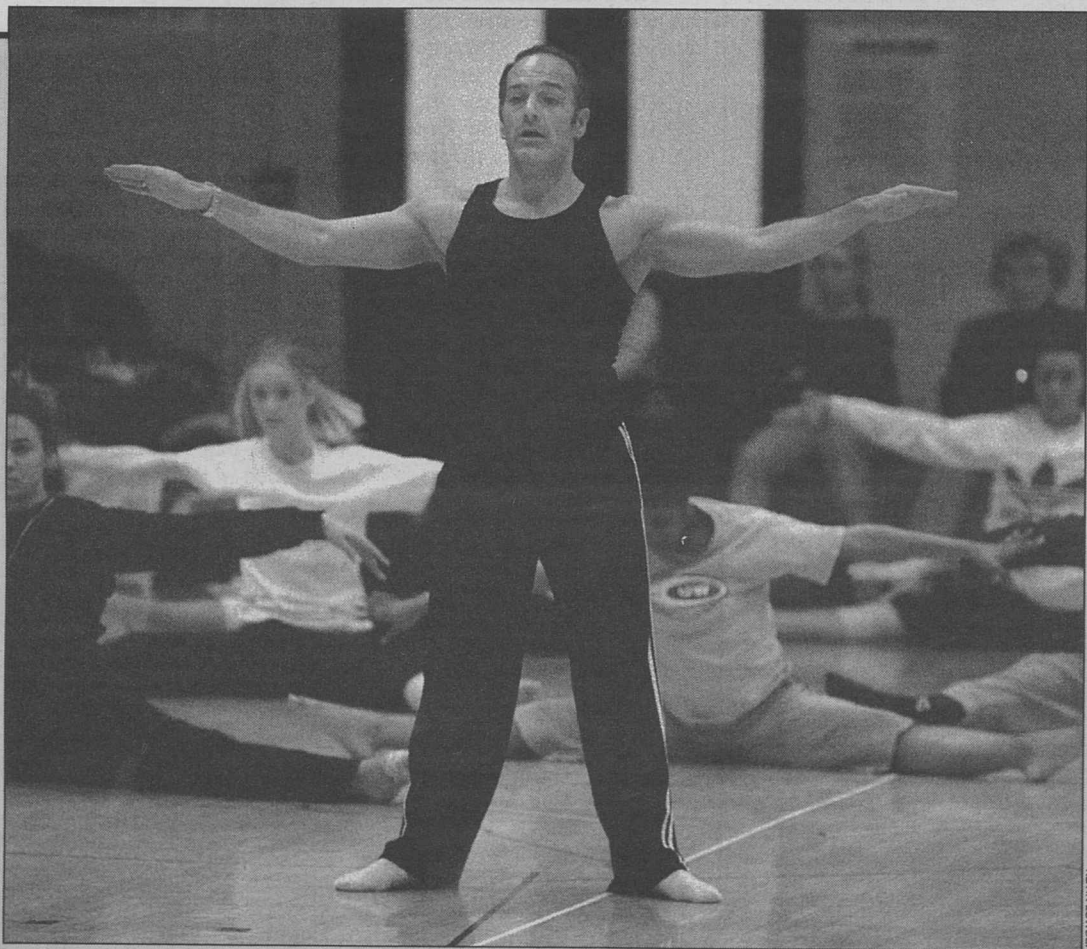
**10 a.m. Physics of the Environment Saturday Series.** "Black Gold: America and Oil." Michael Ogilvie, prof. of physics. Sponsored by the Dept. of Physics and University College. Crow Hall, Rm. 201. 935-6276.

### Monday, April 11

**Noon. Work, Families, and Public Policy Brown Bag Seminar Series.** "Toward an Economic Theory of Dysfunctional Identity." Glenn Loury, University Professor of economics, Boston U. Eliot Hall, Rm. 300. 935-4918.

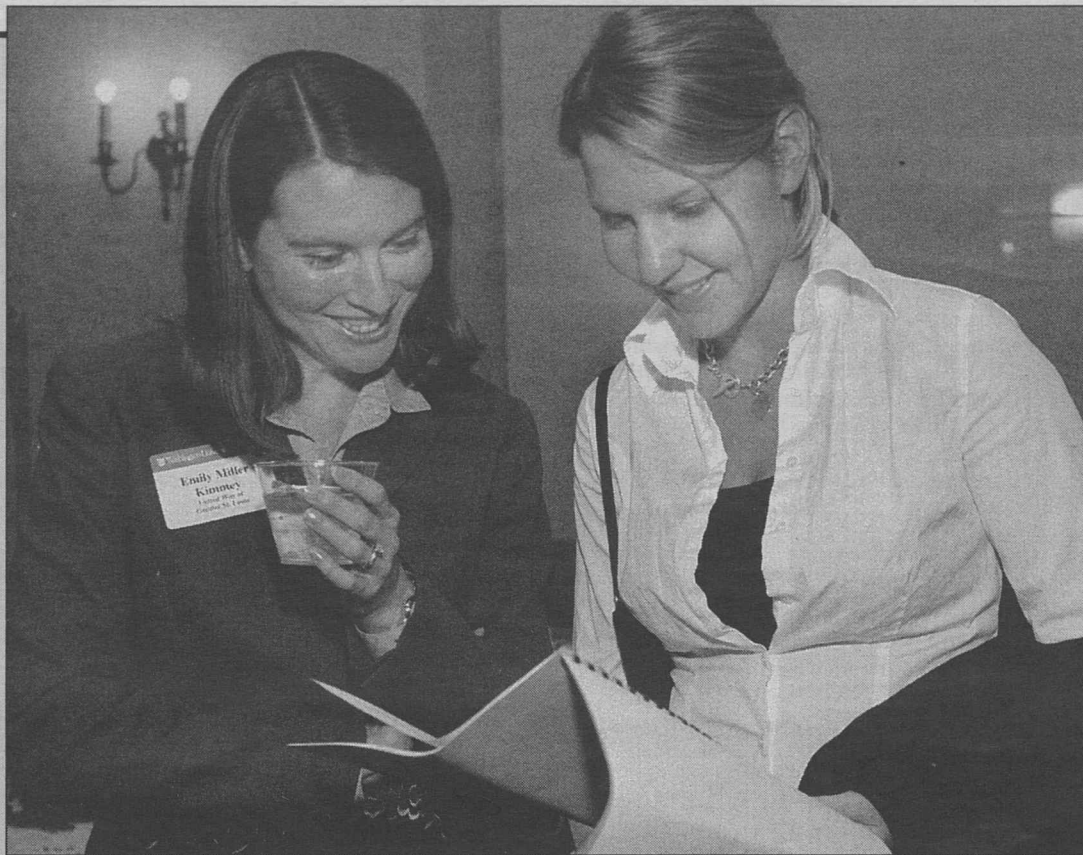
**3 p.m. Neuro-Oncology Research Group Seminar Series.** Joel Garbow, research scientist in chemistry. McDonnell Medical Sciences Bldg., Rm. 928. 362-7379.

**4 p.m. Department of Music Lecture.** "Who Owns Music? Laws, Local Perspectives, and Professional Ethics." Anthony Seeger, prof. of ethnomusicology, U. of Calif., Los Angeles. Music Classroom Bldg., Rm. 102. 935-4841.



**Dancing dynamo** Alberto del Saz, visiting Marcus Artist in the Performing Arts Department in Arts & Sciences' Dance Program, leads an upper-level master class in modern dance technique March 21. Del Saz is co-artistic director of the renowned Murray Louis and Nikolais Dance Company as well as director of the Nikolais/Louis Foundation for Dance. He has staged the Nikolais/Louis repertory with university and professional dance companies around the world. The Marcus Residency is funded by a gift to the Performing Arts Department by Morris D. Marcus, M.D., a dermatologist and professor emeritus in the School of Medicine. Marcus established the annual residency in memory of his wife, Margaret, who was a dancer, teacher and choreographer.





**Greek networking** Emily Dowden (right), a junior in the Pi Beta Phi sorority, talks with Emily Miller Kimmey, vice president of resource development for the United Way of Greater St. Louis, at the "Letters Today, Leaders Tomorrow" program March 23 at the Women's Building Formal Lounge. Kimmey, chair of the WUSTL Pi Beta Phi Alumnae Advisory Committee, was a panelist for the program, which discussed ways for members of Greek life to use their connections to network and get jobs after graduation. The event was moderated by Karin Johnes, director of Greek life. Other panelists were Jeff Davis, chairman of the Missouri Public Service Commission; Joanna DeLong, a senior and a member of Alpha Epsilon Phi, who served as the 2004-05 panhellenic recruitment chair; David Glasser, a 2000 WUSTL graduate and member of Sigma Chi; and Jim Vrendenburg, executive director and president of the Theta Xi Foundation.

**4 p.m. Immunology Research Seminar Series.** Paul E. Lacy Lecture. "How Viruses Get Into Cells: Structures, Mechanisms, Inhibitors." Stephen Harrison, prof. of biological chemistry and molecular pharmacology and of pediatrics, Harvard U. Eric P. Newman Education Center. 362-2763.

### Wednesday, April 13

**11 a.m. Assembly Series.** ArtSci Council, Phi Beta Kappa, Sigma Xi Lecture. "The Physicist as Novelist." Alan Lightman, scientist and author. Graham Chapel. 935-4620.

**4 p.m. Biochemistry & Molecular Biophysics Seminar.** "Using Fe-S Proteins to Program Bacterial Metabolism Under Anaerobic Conditions." Patricia J. Kiley, prof. of biomolecular chemistry, U. of Wisc. Cori Aud., 4565 McKinley Ave. 362-0261.

## Music

### Sunday, April 3

**3 p.m. Recital.** Works by Russian composer Nicolai Medtner; performed by Hugh Macdonald, the Avis H. Blewett Professor of Music in Arts & Sciences. Mildred Lane Kemper Art Museum. 863-6621.

### Wednesday, April 6

**7 p.m. American Indian Awareness Week Performance.** Michael Jacobs, traditional and contemporary musician. Graham Chapel. 935-4510.

## On Stage

### Friday, April 1

**8 p.m. Performing Arts Department Presentation.** *Into the Woods* by Stephen Sondheim and James Lapine. William Whitaker, dir. (Also 8 p.m. April 2, 8 & 9; 2 p.m. April 3 & 10.) Cost: \$12, \$8 for seniors, students, WUSTL faculty & staff. Mallinckrodt Student Center, Edison Theatre. 935-6543.

## Sports

### Friday, April 1

**All Day. Track & Field.** Washington University Invitational. Francis Field. 935-4705.

**3:30 p.m. Women's Tennis vs. Grinnell College.** Tao Tennis Center. 935-4705.

### Saturday, April 2

**All Day. Track & Field.** Washington University Invitational. Francis Field. 935-4705.

**10 a.m. Women's Tennis vs. Rhodes College.** Tao Tennis Center. 935-4705.

**12:30 p.m. Baseball vs. Knox College.** Kelly Field. 935-4705.

### Sunday, April 3

**12:30 p.m. Baseball vs. Knox College.** Kelly Field. 935-4705.

**1 p.m. Softball vs. Millikin U.** WUSTL Field. 935-4705.

**1 p.m. Men's Tennis vs. U. of Chicago.** Tao Tennis Center. 935-4705.

### Wednesday, April 6

**4 p.m. Men's Tennis vs. Lindenwood U.** Tao Tennis Center. 935-4705.

### Thursday, April 7

**4 p.m. Softball vs. Rose-Hulman Inst. of Tech.** WUSTL Field. 935-4705.

### Saturday, April 9

**All Day. Track & Field.** Washington University Select. Francis Field. 935-4705.

**1 p.m. Softball vs. Fontbonne U.** WUSTL Field. 935-4705.

### Monday, April 11

**2 p.m. Baseball vs. MacMurray College.** Kelly Field. 935-4705.

### Wednesday, April 13

**4 p.m. Men's Tennis vs. U. of Mo.-St. Louis.** Tao Tennis Center. 935-4705.

## Worship

### Friday, April 1

**7:15 p.m. Shabbat Dinner Faculty Guest Series.** "Corporate Scandals and Their Costs." Stuart I. Greenbaum, dean and Bank of America Professor of Managerial Leadership, Olin School of Business. Hosted by Chabad on Campus. 7240 Forsyth Blvd. 721-2884.

## And more...

### Friday, April 1

**7 p.m. Kemper Art Museum Public Exhibition Tour.** Led by student docents. Kemper Art Museum. 935-7918.

### Tuesday, April 5

**3:30 p.m. American Indian Awareness Week Discussion.** "Honoring Nations: The Harvard Project." Amy L. Besaw, assoc. dir. of the Honoring Nations program, Harvard Project on American Indian Economic Development. Brown Hall Lounge. 935-4510.

### Thursday, April 7

**Noon-2 p.m. American Indian Awareness Week Event.** American Indian and Alaskan Native food sampling. Goldfarb Hall Student Commons. 935-4510.

### Saturday, April 9

**Noon-10 p.m. American Indian Awareness Week Powwow.** (10 a.m., arts & crafts booths open; 1 & 7 p.m., Intertribal and Contest Dancing.) Athletic Complex. 935-4510.

## Interdisciplinary researcher Treichler to speak April 5

BY LIAM OTTEN

**R**enowned cultural, gender and medical theorist Paula Treichler will speak on "Paradoxes of Visibility: Women's Health in a 'Post-Reproductive Era'" at 7 p.m. April 5 for the Mildred Lane Kemper Art Museum.

The talk is free and open to the public and is presented in conjunction with the exhibition *Inside Out Loud: Women's Health in Contemporary Art*, on display through April 24.

Widely considered one of the nation's leading practitioners of interdisciplinary research, Treichler is a professor of social medicine, of cultural studies and of feminist theory at the University of Illinois.

She is the author of *How to Have Theory in an Epidemic: Cultural Chronicles of AIDS* (1999) as well as the forthcoming *How To Use a Condom: The Trojan Story*, a cultural analysis of condoms in the United States since 1880, and *Medicine's Moving Pictures: Health and Disease in Film and Television*.

Treichler co-authored *A Feminist Dictionary* (1985) with Cheris Kramarae and *Language, Gender, and Professional Writing:*

*Theoretical Approaches and Guidelines for Nonsexist Language* (1989) with Francine Wattman Frank.

She co-editor of *For Alma Mater: Theory and Practice in Feminist Scholarship* (1985) with Cheris Kramarae and Beth Stafford; *Cultural Studies* (1992) with Lawrence Grossberg and Cary Nelson; and *The Visible Woman: Imaging Technologies, Gender, and Science* (1998) with Lisa Cartwright and Constance Penley.

Treichler earned an undergraduate degree from Antioch College — which included a year in India studying philosophy at Madras Christian College — and a doctorate in linguistics and psycholinguistics from the University of Rochester.

*Inside Out Loud* is the first major survey of contemporary American art to explore critical issues relating to women's health. More than 30 campus and community partners have joined with the Kemper Art Museum to present close to 70 events relating to women's health throughout the spring.

For a complete schedule, contact Stephanie Parrish at 935-7918 or stephanie\_parrish@wustl.edu. For more information, call 935-4523.

## Sports

### Baseball team runs winning streak to 12

The baseball team went 4-1 last week, stretching its winning streak to 12 games before falling to Coe College on March 26.

The Bears (16-4) opened the week with a 3-2 win against Greenville College on March 21. With the game tied at 2 in the bottom of the ninth, WUSTL executed a suicide squeeze to perfection to plate the game-winning run.

The Bears then swept Coe, 8-5 and 10-9, on March 25, improving to 7-0 in one-run games.

On March 26, WUSTL opened the doubleheader with a 13-6 win. Junior Jim Haley went 2 for 3 with four runs, while classmate Ryan Corning went 3 for 4 with two runs and two RBIs.

The Bears managed just three hits in the nightcap en route to their first loss since March 11.

### Softball team has perfect 4-0 week

The No. 9 softball team improved to 21-1 with a 4-0 record. The Bears opened with victories over MacMurray College (11-1) and Illinois Wesleyan University (5-3) in the Fifth Annual Midwest Regional Invitational on March 25 at WUSTL Field.

In Game 1, the Bears pounded out 12 hits and capitalized on six MacMurray errors to post the 11-1 victory. Senior Victoria Ramsey improved to 7-0 as she pitched seven innings, allowing four hits. Ramsey also struck out eight batters and is now the school's all-time leader with 255 career strikeouts.

Washington U. took the lead for good against Illinois Wesleyan in the bottom half of the third by scoring three runs.

Sophomore Laurel Sagartz improved to 8-1 on the mound.

Liz Swary went 5 for 7 with five RBI to lead the Bears past No. 22 Wartburg College (8-3) and Centre College (5-2) on March 26. Swary has now hit safely in 22 straight games, which is the second-longest hitting streak in school history.

In Game 2, sophomore Abby Morgan picked up her fourth win of the year, pitching five innings and allowing one run on two hits.

### Strong showings in outdoor Mini Meet

The men's and women's track and field teams opened their outdoor season March 25 by hosting the WUSTL Mini Meet.

Though no team scores were kept, WUSTL turned in a number of strong individual performances.

Senior Hallie Hutchens made the switch from basketball to track, winning the 100-meter and 400-meter hurdles in her first action of the year. Hutchens provisionally qualified for the NCAA Championships in the 100 hurdles (15.01) and clocked a 1:08.58 in the 400 hurdles.

Junior David Skiba took third place in the 110 hurdles on the men's side, recording a time of 15.60. He also won the 400 hurdles (54.34). Freshman Morgen Leonard-Fleckman recorded an NCAA "B" cut in the pole vault, clearing 3.35 meters (11-0).

Sophomore Kevin Gale placed first in the 3,000 steeplechase.

### Basketball, softball players receive honors

Senior guard Kelly Manning garnered NCAA Division III Women's Basketball Coaches Association (WBCA)/Kodak first-team All-America accolades, as announced jointly by the WBCA and

Eastman Kodak Co.

Manning, a first-team all-Central Region honoree by D3Hoops.com, led the Bears in scoring average (15.4), blocked shots (43), free-throw percentage (.871), 3-pointers (58), field goals (141) and minutes per game (27.8).

Manning, who has one year of athletic eligibility remaining, is the seventh WUSTL women's basketball player to be named to the All-America Team.

The seven student-athletes have combined for 11 All-America citations, including seven first-team nods.

Sophomore Jamie Kressel of the softball team has been named to the United States Maccabiah Softball Team, which will compete at the 17th World Maccabiah Games in July in Israel.

The softball team will be one of 27 United States sports teams competing at the Games which are among the world's largest international and Olympic-style events, according to Jordan Weinstein, general chairman of the U.S. Maccabiah Committee.

Kressel has started all 18 games for the No. 9 Bears in 2005, hitting .268 with two home runs and eight RBIs. She helped lead the Bears to their second straight UAA championship last week by hitting .333.

## Campus Watch

The following incidents were reported to University Police **March 23-29**. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

### March 24

**8 a.m.** — A vehicle parked on third floor of the Wohl Parking Garage was found vandalized. All four tires were slashed, both windows smashed and a license plate was bent. Additionally, a car in the next parking space also had a rear tire slashed. An investigation is continuing.

**1:16 p.m.** — A delivery man reported an unknown person broke into a Minute Maid machine on the first floor com-

mons area of Goldfarb Hall. The bill-changer box near the top of the machine was missing. The theft occurred between 11 a.m. March 17 and 1:15 p.m. on this date. No signs of forced entry were found on the machine. An investigation is continuing.

*Additionally, University Police responded to six reports of larceny, three reports each of lost article, property damage and telephone harassment, two auto accidents and one report each of parking violation and trespassing.*



## Danforth

**Great ambassador for the University, community**  
— from Page 1

a picnic lunch when she and Bill Danforth were the first couple to sit on a Japanese bench created in fall 2003 as an architecture school student project," said Jean Davis, one of the primary Woman's Club volunteers who helped start and now maintain Ibbey's Garden. "The Woman's Club hopes that visitors to the garden will remember the welcoming warmth that was Ibbey Danforth."

When William Danforth retired as chancellor in 1995, alumni, parents, faculty, staff and friends of the University established the William H. and Elizabeth Gray Danforth Scholars Program, which makes significant scholarships available for students in each of the University's schools.

Also in 1995, the University named the largest residence for undergraduate students the Elizabeth Gray Danforth House in her honor. That same year, she and her husband were named to the Washington University Sports Hall of Fame for dedicated support and revitalization of its athletic programs.

Other honors were bestowed upon the Danforths, including the Jane and Whitney Harris St. Louis Community Service Award in 2002 to recognize their commitment to the St. Louis region.

"Ibby served our community unstintingly, demonstrating a devotion and commitment far beyond the call of duty," said John F. McDonnell, retired chairman of the board of McDonnell Douglas Corp., chairman of the University's Board of Trustees from 1999-2004 and currently vice chairman. "For all of us — alumni, students, faculty and staff

alike — she exemplified the finest qualities of personal leadership by engaging everyone she met and becoming our ambassador to graduates around the world.

"We will truly miss her, and we always will remember her exceptional service to Washington University."

Other honors accorded to Danforth include the 1983 St. Louis Wellesley Award, the 1989 Outstanding Alumna Award from John Burroughs School and the 1990 St. Louis Woman of Achievement Award for Youth Enrichment.

Danforth served as a member of John Burroughs School's board of trustees and alumni board. In addition, she served as president of the Wellesley Club of St. Louis. She also was as a member of the board of the Community School.

Danforth was a life patron of the Eliot Society and served as a member of the boards of the Women's Society and the Woman's Club.

A visitation will be held from 4-7 p.m. April 1 at Lupton Chapel, 7233 Delmar Blvd. in University City.

A memorial service will be held at 3 p.m. April 10 in Graham Chapel, followed by a reception in Holmes Lounge.

In addition to her husband of 54 years, survivors include three daughters, Cynthia Prather of Anniston, Ala., Maebelle Reed of Tucson, Ariz., and Elizabeth Sankey of Ladue, Mo.; a son, David Danforth of Clayton; a sister, Dr. Mary Jane Gray of Philomath, Ore.; and 13 grandchildren.

In lieu of flowers, the family has asked that gifts be made to Washington University for the Danforth Scholars Program, Washington University, Campus Box 1228, One Brookings Drive, St. Louis, MO 63130; the Donald Danforth Plant Science Center, 975 N. Warson Road, St. Louis, MO 63132; or to any other charity of the donor's choice.

**"Ibby ... exemplified the finest qualities of personal leadership by engaging everyone she met and becoming our ambassador to graduates around the world. We will truly miss her, and we always will remember her exceptional service to Washington University."**

JOHN F. McDONNELL

## Genomes

— from Page 1

entists from Saint Louis University, The Institute for Genomic Research in Rockville, Md., and the Stanford Genome Technology Center, among many national and international participants.

The group's results were recently published online in the "express" version of the journal *Science*.

### Fungi as 'wimpy' pathogens

"As pathogens, fungi are kind of wimpy," Doering said. "Most fungi don't cause disease, and for those that do, host factors determine how severe the disease is."

"A typical fungal cell builds a sort of protective wall, but *C. neoformans* attaches a fibrous coating around that wall to interact with the host environment. This coat is called the capsule."

Researchers also identified differences between a highly virulent strain of *C. neoformans* and one that doesn't cause severe infection. These differences may hold the key to understanding why this particular fungus is so virulent and may help to develop effective treatments.

Brent's TWINSKAN software predicts the existence of genes by looking at two genomes in parallel and homing in on statistical patterns in the individual DNA sequences of each. In the November

issue of *Genome Research*, Tenney, Brent, Doering and their collaborators reported that many TWINSCAN-predicted genes that were missed by more conventional gene-finding techniques could be verified experimentally.

Early results from the *C. neoformans* microarray support these findings on a genome-wide scale, and indicate under which conditions these genes are expressed.

"One of the new things about this genome is that it's the first genome of a single-celled organism that has complex gene structure," Brent said. "It's much more complex than brewer's yeast, for example; more similar, in fact, to the roundworm *C. elegans*."

"Another remarkable aspect of this work is that it was one of the earliest genome sequencing projects where there are two genomes of subspecies for comparison. That is interesting and advantageous for gene prediction."

Brent and Doering are married. This study is their first collaboration.

"We never thought that we'd collaborate," said Brent, whose specialty in computational biology has made him valuable in the sequencing and analysis of numerous high-profile genomes.

"It's really, really fun to work together," said Doering, whose emphasis as a molecular microbiologist is on studying proteins to determine their function. "We hope our scientific paths cross again, but that's hard to predict."

## American Indian Awareness Week April 4-9

By JESSICA MARTIN

An American Indian powwow, traditional cuisine, storytelling, music and crafts will be among the highlights of the University's American Indian Awareness Week April 4-9.

"Although the Kathryn M. Buder Center has been hosting American Indian Awareness Week for the last 14 years, this year is the most significant in our history, as it is a celebration honoring our 15-year anniversary," said Dana Klar, interim director of the Kathryn M. Buder Center for American Indian Studies at the George Warren Brown School of Social Work.

Originally established to provide scholarships for American Indians, the Buder Center has grown into one of the most respected institutes in the nation for the academic advancement and study of American Indian issues related to social work.

The annual awareness week and powwow allow the University's American Indian students to share their unique cultures with the rest of the campus and the St. Louis community. All events are free and open to the public.

The movie *The Business of Fancy-Dancing*, written and directed by award winning author Sherman Alexie, will be featured from 7-9 p.m. April 4 in Brown Hall Lounge. The movie follows two best friends as they reunite on a Spokane reservation 16 years after high-school graduation. A discussion will follow the show.

Amy L. Besaw will lead a discussion on "Honoring Nations: The Harvard Project" from 3:30-4:30 p.m. April 5 in Brown Hall Lounge. Besaw is the associate director of the Honoring Nations program at the Harvard Project on American Indian Economic Development.

Winner in the "best independent music" category of the 2003 Native American Music Awards, Michael

Jacobs will present his blend of traditional and contemporary music from 7-9 p.m. April 6 in Graham Chapel. Jacobs' songs, filled with powerful imagery, tell stories of life, love, hope and heartache.

On April 7, Buder Center students and staff will offer a sampling of American Indian/Alaskan Native foods from 12-2 p.m. in the Goldfarb Hall Student Commons. Grandma Coyote will entertain with traditional tales and Native American lore.

Carole Goldberg, professor of law at the University of California, Los Angeles, will speak about "The Campaign for Democracy Around the World: Lessons From Indian Country" at 2 p.m. April 8 in the Bryan Cave Moot Courtroom of Anheuser-Busch Hall.

American Indian Awareness Week will culminate April 9 with the 15th annual powwow, a festival of American Indian dancing, singing, drumming, arts, crafts and food.

This year's powwow features an arts and crafts show, an expanded drum circle and a special stomp dance exhibit. A commemorative T-shirt featuring the artwork of a young native artist will be available for purchase.

"It is our hope that the Washington University and St. Louis communities will come out and show their support and have a great time," Klar said.

The powwow, from noon-10 p.m. in the Athletic Complex, frequently attracts more than 1,500 people from 10 states.

The intertribal and contest dancing will begin at 1 p.m. and again at 7 p.m. Traditional arts and crafts booths will open at 10 a.m.

The American Indian Awareness Week and powwow are sponsored by the Buder Center, the School of Law, various University departments and members of the St. Louis community.

For more information, call the Buder Center at 935-4510 or go online to [gwweb.wustl.edu/buder](http://gwweb.wustl.edu/buder).

## Symposium

**Hampton earned WUSTL degree in 1961**  
— from Page 1

assistant professor of history and of African and Afro-American Studies, both in Arts & Sciences, who developed the concept for a symposium focusing on the struggle for civil rights in America.

"Forty years ago, the Voting Rights Act of 1965 was passed, ending the long disenfranchisement of African-Americans and their exclusion from the democratic process. These events commemorate the struggles and celebrate the progress."

Watched by more than 20 million viewers with each airing, *Eyes on the Prize* served as an important educational tool, reaching a generation of millions of Americans who have no direct experience with the historic events chronicled. Though the series included such landmark events as the Montgomery, Ala., bus boycott of 1955-56, the 1963 march on Washington and the 1968 assassination of Martin Luther King Jr., it also documented the workings of the movement on a grass-roots level, presenting events and individuals often overlooked.

Both series were broadcast by the Public Broadcasting Service: the first six programs were aired in 1987; the eight-part sequel was broadcast in 1990.

They were produced over the course of 12 years by Hampton's Blackside Inc., film company, one of the oldest minority-owned film and television production companies in the country. The

### "Documenting Change" symposium schedule

#### April 5

• 7 p.m., Louderman Hall, Room 458: Two 50-minute episodes from the *Eyes on the Prize* documentary will be shown: "Mississippi: Is This America?" beginning at 7 p.m.; and "The Promised Land" starting at 8 p.m.

Both screenings will feature an introduction by Leslie Brown, Ph.D., assistant professor of history and of African and Afro-American Studies, both in Arts & Sciences.

#### April 6

• 11 a.m., Graham Chapel: Civil rights activist Robert Moses will lecture.

• 4:30-6:30 p.m., Ginkgo Reading Room, Olin Library: The opening reception and program for the exhibition titled ... *And Henceforth Shall Be Free*

will be held. The exhibit includes historical prints from the collection of James Schiele that depict abolition, the Civil War and Reconstruction.

An opening reception will be held at 4:30 p.m. followed by a program at 5:30 p.m. featuring remarks by Schiele; Wayne Fields, Ph.D., the Lynne Cooper Harvey Distinguished Professor in English and director of American Culture Studies, both in Arts & Sciences; and former U.S. Sen. Tom Eagleton.

• 7:30 p.m., Uncas A. Whitaker Hall for Biomedical Engineering Auditorium: A panel discussion featuring *Eyes on the Prize* producers Judy Richardson, Orlando Bagwell and Louis Massiah; and David Rowntree, special media collection archivist for University Libraries, will be held.

Henry Hampton Collection consists of materials that were collected in connection with the various documentary films made by Hampton and his production company.

A native St. Louisan, Hampton earned a bachelor of arts degree from WUSTL in 1961. He died in 1998, but his contribution lives on in his collection, which was obtained by University Libraries in 2001.

The symposium sponsors are University Libraries, the Association of Black Students, the Assembly Series, and Arts & Sciences' African and Afro-American Studies, American Culture Studies, Film and Media Studies, and the departments of History and Po-

litical Science.

"Documenting Change" will include two film screenings — one episode each from the two series of *Eyes on the Prize* — a lecture by civil rights hero Robert Moses; an exhibition of historic prints depicting abolition, the Civil War, and Reconstruction; and a panel discussion featuring *Eyes on the Prize* filmmakers Judy Richardson, Orlando Bagwell, and Louis Massiah, all of whom were producers of the original series. They will be joined by David Rowntree, special media collection archivist for the Libraries.

The symposium is free and open to the public. For more information on the symposium, call 935-5285.

## Vendor fair

— from Page 1

file-sharing resources," Weller said. "Members of the committee surveyed University students about file sharing, vendor awareness and business models that students would support if the University directly contracted for the service."

After learning of a successful vendor fair at Indiana University, Weller decided to hold a similar event at WUSTL.

In addition to the vendors, the fair will include music, food,

prizes and a 10 p.m. panel discussion featuring members of the Recording Industry Association of America and the Motion Picture Association of America, and Rebecca L. Brown, associate general counsel at the University.

"It's important to note that no one has made any commitment at this time to contract for this type of service," Weller said.

"Shortly after the fair, Matt Arthur (director of residential technology services) and I plan to meet with Jim McLeod (vice chancellor for students and dean of the College of Arts & Sciences) and Justin Carroll (assistant vice chancellor for students and dean

of student affairs) to discuss whether this is a service the University should make available to the students. If the answer is yes, then we'll move on from there."

"Right now, this is all about information — gathering and sharing."

Weller said she thinks a decision on whether to offer this service or not will be made by early June. If the decision is to go forward, she hopes to have the service available for the fall semester.

"Our aim is to provide an environment for our students that fosters good network citizenship," she said.



## Notables

### Engineering & applied science to present alumni awards

By TONY FITZPATRICK

The School of Engineering & Applied Science will honor seven distinguished individuals April 6 at its annual Alumni Achievement Awards Dinner at the Fox Theatre.

The event will begin at 5:45 p.m. with cocktails, followed by dinner and the awards program at 7:45 p.m. Presenting the awards will be Dean Christopher I. Byrnes, Ph.D., the Edward H. and Florence G. Skinner Professor of Systems Science and Mathematics.

Alumni Achievement Award recipients are: William L. Bernard, Thomas J. Feichtinger, Howard M. Nelson Jr., Gregory A. Sullivan and Clarence (Turk) M. Turley Jr.

Cynthia A. Gruensfelder will receive the Young Alumni Award, and I.E. Millstone will receive the Dean's Award.

• **Bernard** is honored in recognition of his career accomplishments and for his dedication to his community. He began his career as a heat-transfer design engineer at the Trane Company in LaCrosse, Wis. In 1955, he joined Stanley Lopata as a sales engineer at Process Engineering and Equipment Co.

In 1959, Bernard started Technical Service Corp. as a manufacturer's representative, serving on the "rep council" for four manufacturers. He retired in the early 1990s and is board chairman of Technical Service.

• **Feichtinger** is recognized for his wide-ranging accomplishments in advanced computer technologies and his extensive community service. Upon graduation, he joined Arthur Andersen & Co. (now Accenture). In 1995, Feichtinger joined Computer Sciences Corp. in St. Louis and later became vice president of the southwest region for Braun Consulting.

In 2000, Feichtinger served as vice president and chief technology officer of Optate. In 2001, he joined General Motors Corp. In 2003, he was promoted to global director for common systems architecture.

• **Nelson Jr.** is honored in recognition of his career accomplishments in the aluminum and chemical industries. Upon graduation, Nelson joined Kaiser Aluminum & Chemical Corp. Leaving Kaiser in 1966, Nelson

returned to St. Louis as general manager of Mesker Brothers, an architectural products manufacturer.

In 1967, he returned to Kaiser in its chemicals division. He retired in 1991 after consulting and joining the board of Carus Corp.

• **Sullivan** is honored for his success as an engineer, entrepreneur and civic leader, and for his service to the School of Engineering & Applied Science. With a vision for how the microcomputer would impact the world, he created the company G.A. Sullivan. He sold it in 2003 and currently works as a consultant.

He remains active in many St. Louis-area civic and charitable organizations and engineering school activities.

• **Turley Jr.** is honored for his many achievements in commercial real estate and his extensive community service. He went to work with his father at Turley Corp., a commercial real estate firm in downtown St. Louis.

Over 54 years, Turley represented large and small companies as their agent. Office leasing, site assembly and property acquisitions became his specialties.

• **Gruensfelder** is honored in recognition of her professional achievements and the creativity she brings to her career and community. She earned a bachelor's degree in aeronautical and astronautical engineering from the University of Illinois.

Gruensfelder is team leader for the Boeing Joint Unmanned Combat Air System Program Advanced Design Group. She produces numerous toys, inventions, books, screenplays and musical scores.

• **Millstone** receives the Dean's Award in recognition of his many professional achievements in the construction industry, his philanthropy to St. Louis and his generosity to the University.

A pioneer in the use of reinforced concrete, at age 22 he founded Millstone Construction Inc. The company's architectural influence extends beyond the metropolitan area, as far as Israel. Millstone remains active as president of K&M Investors and the Millstone Charitable Foundation.

Annually, more than 60 University students, including many in the School of Engineering & Applied Science, benefit from Millstone's generosity.



**Distinguished guest** U.S. Secretary of Commerce Carlos Gutierrez (right) chats with Stuart I. Greenbaum, Ph.D., dean of the Olin School of Business and the Bank of America Professor of Managerial Leadership, after a speech Gutierrez gave March 24 in Simon Hall. Gutierrez spoke to a nearly packed house in May Auditorium about the Bush administration's plans to create personal, private accounts for Social Security. The Olin School worked in partnership with the Regional Business Council and the Regional Chamber and Growth Association to bring Gutierrez to the Hilltop Campus.

### Indeck named 'Missouri Inventor of the Year'

By TONY FITZPATRICK

The Bar Association of Metropolitan St. Louis' (BAMSL) Patent, Trademark & Copyright Section has named Ronald S. Indeck, Ph.D., the Das Family Distinguished Professor of Electrical Engineering, the 2005 Missouri Inventor of the Year.

Indeck, also director of the University's Center for Security Technologies, holds numerous patents relating to detecting magnetic media forgeries and high-speed data searching, which contribute greatly to the international fight against credit card fraud, identity theft and threats to national security.

Indeck's collaborators and co-inventors on the detection work include School of Engineering &

Applied Science faculty members Marcel Muller, Joseph O'Sullivan, Bob Morley, Mark Franklin, Ron Cytron and Roger Chamberlain.

Indeck received the award at a dinner March 23 at the Probst Golf Course Clubhouse in Forest Park.



Indeck

and currently leads research in projects of recording physics, magnetic devices, authentication and exploiting massive databases.

He earned undergraduate, master's and doctoral degrees from the

University of Minnesota.

In the 1980s, he was a National Science Foundation Research Fellow at Tohoku University in Sendai, Japan. Since 1988, he has been in the Department of Electrical and Systems Engineering at WUSTL.

He has published more than 50 peer-reviewed technical papers and has many awards.

He is past president of the Institute of Electrical and Electronic Engineers Magnetics Society.

Each year BAMSL's Patent, Trademark and Copyright Section recognizes a Missouri inventor whose contributions to science or technology are outstanding.

Founded in 1874, BAMSL is a professional association of more than 6,500 lawyers and judges.

## Obituary

### Haskin, earth and planetary sciences professor; 70

By TONY FITZPATRICK

Larry A. Haskin, Ph.D., retired professor of earth and planetary sciences in Arts & Sciences, died Thursday, March 24, 2005, in his sleep at home. He was 70.

Although active until his death, he had been fighting the blood disorder myelofibrosis for many years.

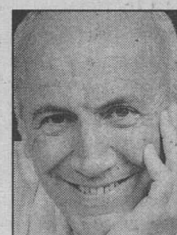
Haskin was an internationally known geochemist and was one of the first planetary scientists to study rock samples taken from the moon during the Apollo missions.

Haskin was a NASA scientist, joining the agency in 1973 as chief of the Planetary and Earth Sciences Division at the Johnson Space Center in Houston. He left NASA in 1976 to become professor and chair of WUSTL's Department of Earth and Planetary Sciences, he latter a position he held until 1990.

He remained active with NASA, serving on various committees.

Early in his WUSTL career, he held a joint appointment with the Department of Chemistry in Arts & Sciences and he was a fellow of the McDonnell Center for Space Sciences.

"Larry Haskin will be remembered fondly by those of us who knew him," said Raymond E. Ar-



Haskin

and mentor.

"During his term as chairman of earth and planetary sciences from 1976 until 1990, he began the development of the department that now ranks as one of the best in the world. We will miss his kindness, deep insight and leadership."

Haskin was born in Olathe, Kan., on Aug. 17, 1934. He earned a bachelor's degree from Baker University and a doctorate in physical chemistry from the University of Kansas in 1960. Haskin was on the chemistry faculty of the University of Wisconsin from 1960-73.

Among many honors and achievements, Haskin was a Guggenheim Fellow in 1966-67, when he studied at the Max Planck Institute for Nuclear Physics in Heidelberg, Germany. In 1971, he received NASA's Exceptional Scientific Achievement Award.

Haskin had a broad array of

research interests.

He described the main goals of his work as "to further precise, accurate geochemical analysis; gain quantitative understanding of trace-element behavior through rock analysis and geochemical modeling, with experimental work to provide modeling parameters and better understanding; and introduction to the application of some methods of physical chemistry to geochemical work (neutron activation analysis, electron paramagnetic resonance, silicate electrochemistry, planetary Raman spectroscopy)."

He was known for his articulate and persuasive concepts of returning to the Moon and using the planet wisely as an energy source and a true satellite for further space exploration. Most recently, he made significant contributions to the Mars exploration rover mission, working with colleagues from WUSTL and NASA at the Jet Propulsion Laboratory.

Haskin is survived by his wife, Mary; his son, Dierk; his daughters, Rachel and Jean; and four grandchildren.

There will be no public service. A memorial service is planned, and the date will be announced shortly.

## Record

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Washington University in St. Louis



## Washington People

**B**reathing lessons with Allen Ginsberg. Blowgun practice with William S. Burroughs.

Ken Botnick could tell some stories. But in many ways, Botnick, professor of visual communications and director of the Nancy Spirtas Kranzberg Studio for the Illustrated Book, has dedicated his career to facilitating the stories of others.

Over the past 25 years, Botnick has published everything from trade books on art and design to handmade, limited edition volumes by some of the world's foremost literary figures.

"Ken is a very influential figure in the American fine press movement," said Anne Posega, head of Olin Library Special Collections. "His work is elegant and innovative, but with a strong focus on publishing significant texts. For Ken, the content of a book is as important as the way it looks."

Since coming to the School of Art in 1997, Botnick has continued to design both trade and



Ken Botnick instructs students in the Nancy Spirtas Kranzberg Studio for the Illustrated Book, with the help of Wilson the dog. Botnick is a renowned publisher and book designer, in addition to being professor of visual communications in the School of Art.

## 'A craftsman at heart'

The School of Art's Ken Botnick is concerned with a book's cover, not just its contents

By LIAM OTTEN

small-press books while pioneering new directions in the visual communications curriculum.

Just last week, he received a Fulbright Grant to India for spring 2006.

"I'm a craftsman at heart," Botnick muses, "drawn to the play of material, technique, design and soul, whether it's in a poem, a painting, a bridge or a ceramic pot. Craft is one of the defining human characteristics. For me, the book has been a kind of path toward that humanity."

Growing up in Akron, Ohio, Botnick didn't consider himself a particularly artistic kid and frequently spent summers working construction with his father.

A high school field trip to Frank Lloyd Wright's *Fallingwater* outside Pittsburgh proved a turning point. Botnick was thunderstruck by the small, multi-tiered residence, which dramatically straddles a mountain waterfall.

"It was a pivotal moment," Botnick recalls. "I woke up to something called design."

At the University of Wisconsin, Botnick befriended renowned book artist Walter Hamady, who ran The Perishable Press from a nearby farm. He also began working with classmate Steve Miller, who had just launched Red Ozier Press.

"(Hamady and Miller) were dedicated to literature in ways I'd never confronted," Botnick says. "Making these books — literally starting with paper fiber; setting and printing type; binding the thing — felt very authentic to me."

After graduating in 1978, Botnick completed a one-year graduate program at the Conway School of Landscape Design in Massachusetts, then worked with earth sculptor Nancy Holt on a park outside Washington, D.C.

Yet all the while he continued working on book projects with Miller.

In the fall of 1979, the pair decided to take Red Ozier from Wisconsin to New York. The muses smiled, in the form of \$10,000 literary grant from the National Endowment for the Humanities.

Botnick found a loft in lower Manhattan and soon Red Ozier was up and running, one of the few letterpresses in the city. Early projects included Robert Bly's *Mirabai Versions* (1980); Burroughs' *The Streets of Chance* (1980); and Isaac Bashevis Singer's *One Day of Happiness* (1982). Larry Rivers illustrated Ned Rorem's *Paul's Blues* (1984); Nancy

Spero illustrated Antonin Artaud's *Chanson* (1985).

Other coups included previously unpublished works by Ginsberg, Guy Davenport, William Faulkner and Octavio Paz.

"We had a very particular slant," Botnick explains. "We'd get things that weren't really commercially oriented, things that were more personal in nature."

Editions were small, perhaps 150 copies, and typically sold for about \$100 — inexpensive for handmade books. Bartering helped control costs. Authors took a portion of the print run; a local foundry cast type in exchange for help on other jobs.

By the late 1980s, Red Ozier had published more than 60 titles and emerged as one of the nation's premiere book studios.

But after almost a decade in New York, Botnick — newly married and starting a family — was ready for a change. In 1988, he and Miller sold Red Ozier's archives to the New York Public Library.

Miller went to the University of Alabama as director of book arts, while Botnick joined Yale University Press as head of art book design and production.

"I wasn't really qualified for the job," Botnick says. "These were trade publications, printed in Hong Kong, Milan. ... I'd only done small letterpress books. But I had this notion that I knew what a book was supposed to look like. How different could it be?"

Botnick thrived at Yale, designing Andrew Stewart's definitive *Greek Sculpture: An Exploration* (1993), Maud Lavin's *Cut with the Kitchen Knife: The Weimar Photomontages of Hannah Höch* (1993) and other important projects.

He even played a role in acquiring titles, particularly design books such as *Dan Friedman: Radical Modernism* (1994), and also began teaching typography at the Yale School of Design.

In 1993, Botnick was appointed executive director of the Penland School of Crafts in North Carolina, one of the nation's premier craft centers.

"It was a wonderful opportunity to become immersed in the international craft education movement and have some degree of influence over curriculum and program," he explains. "Design and craft are interesting fields because knowledge is often transferred non-verbally. Watching the hands of a master potter, listening to the silence in the room ... that to me is fundamental."

Yet as an administrator, Bot-

nick found his own studio time severely curtailed. Then, in 1997, a new opportunity arose when Washington University announced plans to form the Kranzberg book studio.

"It was a perfect fit," Botnick recalls. "The chance to build the studio and configure program goals was really interesting. There also was a lot of talk about publishing — people had projects but no real way to get them done."

That, of course, was Botnick's expertise.

Since coming to St. Louis, he's designed and produced a series of trade publications focusing on campus authors, artists and architects.

Highlights range from *Three Essays: Reflections on the American Century* (The Press at Washington University, 2000); to *Literary St. Louis: A Guide* (Missouri Historical Society Press, 2000); and *Modern Architecture in St. Louis: Washington University and Postwar American Architecture, 1948-1973* (School of Architecture, 2004).

Other books include *Selected Poems* by John N. Morris, professor emeritus of English in Arts & Sciences, and Morris' memoir *Then: Essays in Reconstruction* (both 2002).

Botnick continues to publish small, handmade editions under his own emdash imprint.

Recent releases include *Clarence Morgan: Sketchbooks* (2000); *Kavya* (2003), a series of classical Sanskrit poems collected by Octavio Paz; and *In Defense of the Book* (2001) by William Gass, Ph.D., the David May Distinguished University Professor Emeritus in the Humanities in Arts & Sciences.

These days, Botnick is preparing for the Kranzberg studio's fall 2006 move from West Campus to Earl E. and Mrytle E. Walker Hall, now under construction. The complex, 2,500-square-foot studio will house multiple presses, paper cutters, silkscreen facilities, type storage and digital workspaces.

At the same time, he's begun working with students and faculty from other campus areas to bring a new element — cognitive science — into the visual communications curriculum.

"It's important for designers to understand how the mind receives information," he explains, noting that the move follows a national, first-of-its-kind symposium on "Visual Design for an Aging Population," which Botnick — a member of the Center for Aging executive committee — organized last spring.

"There are real, physiological foundations underlying traditional graphic principals governing perception. The brain does a lot of the work of design, and it sees a lot that isn't there."

Botnick points to a phenomenon known as lateral inhibition: "Basically, intensity heightens when one field of color meets another," he says.

For example, when a light color abuts a darker color, the light color will appear much lighter at its edge than it does at its center. "How that edge is perceived has powerful implications for graphic design."

Botnick also is preparing for his upcoming Fulbright, which he'll spend helping to develop a new curriculum for graduate-level graphic and information design at India's prestigious National Institute of Design (NID) in Ahmedabad (an institute begun, ironically, by WUSTL Architecture alumnus Charles Eames).

"India is a designer's dream," says Botnick, who has visited NID twice before as a lecturer. "There's ornament everywhere; it looks like the birthplace of color."

"It's the most innately design-conscious culture I've ever witnessed."

Yet as India industrializes, "all that's being abandoned, traded-in for technology. The kids being trained as designers today don't make things with their hands."

Botnick also plans to make a book, and has already been in contact with a potential partner.

"There's a group of temple-cloth printers in Ahmedabad who work with these incredible, 100-year-old woodblocks that have been handed-down for generations," Botnick explains. "They have dozens of blocks for any given cloth and are open to letting me use some for book printing."

"I don't know what exactly will come from the trip, but I know it will be fruitful."

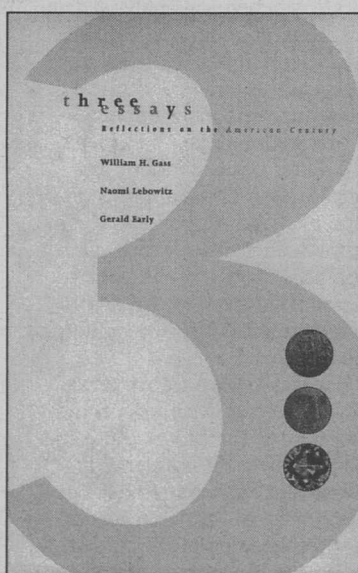
### Ken Botnick

**Titles:** Director, Nancy Spirtas Kranzberg Studio for the Illustrated Book, professor of visual communications, School of Art

**Family:** Wife Karen Werner; daughter Claire, freshman at Mount Holyoke College; daughter Molly at Crossroads School; dog Wilson, shop maintenance engineer

**Selected grants and awards:** National Endowment for the Arts (1984); New York Council on the Arts (1985-88); Best of Show, Triennial Broadside Competition, Fine Print Magazine (1991); Fulbright Fellowship (2006).

**Selected exhibitions:** *Fine Printers*, *Finely Bound*, Watson Library, Metropolitan Museum of Art, New York (1987); *Private Presses*, The Gutenberg Museum, Mainz, West Germany (1988); *Red Ozier Press: A Retrospective*, The Cooper Union, New York (1993).



Botnick designed *Three Essays: Reflections on the American Century* (The Press at Washington University, 2000). Edited by Wayne Fields, the book paired essays by Arts & Sciences' Gerald Early, William H. Gass and Naomi Lebowitz with illustrations by the School of Art's Michael Byron, Patrick Schuchard and Denise Ward-Brown.